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10.4. This star furnishes a proof of the possibility of the existence of bright lines in the spectra of stars of very low intrinsic brightness. W. S. ADAMS.

#### TEN SPECTROSCOPIC BINARIES.

The following stars have been found to be spectroscopic binaries:—

		Mag.	Spec.	R.A. 1910	Dec.	Range in Velocity km	
Boss	9	6.3	G5	0 <sup>h</sup> 3 <sup>m</sup> .8	— 2° 55'	—15	to +16
Boss	1177	5.6	A0	4 52 .6	+24 55	+ 1	+49
Boss	2381	5.5	A2	8 47 .2	— 6 50	+10	+56
Boss	2484	5.8	A2	9 11 .5	+47 12	—14	+76
Lal.	18397	7.7	G7p	9 16 .8	+40 38	—16	—54
Boss	3323	5.0	A5p	12 41 .2	+ 8 9	—43	+36
Boss	3428	7.1	B9p	13 8 .6	—18 21	—100	+17
Boss	3540	6.3	A0p	13 39 .2	— 5 3	—63	+41
Boss	4660	5.7	F7	18 21 .6	+ 7 59	—46	— 4
Boss	5070	5.7	B3	19 47 .5	+40 22	—54	+86

The spectrum of Lal. 18397 is composite.

W. S. ADAMS.

#### PHOTOGRAPHIC ALBUM OF THE ECLIPTIC ZONE.

Under the auspices of the Astronomical Society of Spain and America, J. COMAS SOLÁ, Director of the Fabra Observatory, Barcelona, Spain, has undertaken to photograph the entire ecliptic region with a Petzval objective, 16<sup>cm</sup> in diameter and 80<sup>cm</sup> focal length. Forty photographic plates, 18 × 20<sup>cm</sup>, covering an effective field of 10° × 12°, will take all the stars of the ecliptic zone down to the thirteenth magnitude. The reseau put on each plate will make the determination of coördinates easy and accurate. The stars are allowed to trail for a short time to show the east-west direction. Two exposures are given to each plate to make the difference between defects and photographic images clear. The separation of the two images is 30'' =  $\frac{1}{8}$  of a millimeter on the photographic plate. Small planets may be discovered or rediscovered in this way, since neither the separation of the images nor the direction of the trails will be the same as for the stars. The negatives will be

reproduced on heavy glossy paper and the album will be made up of forty plates. In the album those objects only will be marked that show special features, on account of the magnitude, spectral type, parallax, binary system, proper motion, radial velocity or variability of the star, or because they are asteroids or nebulae. J. COMAS SOLÁ expects to finish his work by the middle of 1915. The album of plates can be secured from the secretary of the society, Mr. F. ARMENTER, Plaza Real 13, Barcelona, Spain, at the price of ten dollars.

M. SELGA, S. J.

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MINUTES OF THE SPECIAL MEETING OF THE BOARD OF DIRECTORS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC,  
HELD IN THE ROOMS OF THE SOCIETY, 752  
PHELAN BUILDING, SAN FRANCISCO, ON  
NOVEMBER 28, 1914, AT 2:00 P. M.

There were present President R. T. CRAWFORD and Directors AITKEN, CUSHING, COSTA and RICHARDSON. Director RICHARDSON held the proxies of Directors BURCKHALTER, TOWNLEY and MARKWART.

Action was taken upon the award of the Bruce Gold Medal for the year 1915, report of which will be made later.

On motion of Director AITKEN, the following were elected members of the Society:—

Prof. M. SELGA, S. J., of the Observatory of Manila, P. I.

Dr. E. S. HAYNES, of Smith Observatory, Beloit, Wis.

Director CUSHING made a verbal report upon the situation resulting from the failure of the People's Water Company to pay the accrued interest upon the underlying bonds of the Contra Costa Water Company, of which the Society holds three. It was the sense of the Board that no action looking to a compromise of the rights of the Society in the premises should be taken at this time.

The following committees were appointed by the President to report at the annual meeting in January, 1915:—

*Auditing Committee*—C. S. CUSHING (Chairman), F. V. CORNISH, A. B. BAIRD.

*Nominating Committee*—B. L. HODGHEAD (Chairman), Dr. S. EINARSSON, J. D. GALLOWAY.

President CRAWFORD invited the attention of the Board to the fact that the important work of the International Latitude Observatories was threatened, and liable to be discontinued, as a result of the war conditions in Europe. Upon his suggestion the following resolution was prepared and unanimously passed by the Board:—

WHEREAS, It has come to the attention of this Board that the work of the International Latitude Observatories is threatened by the present war in Europe, and that some of the stations may be closed; be it